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# NOTICE OF ALLOWANCE AND FEE(S) DUE

25269 7590 03/25/2008 DYKEMA GOSSETT PLLC

FRANKLIN SQUARE, THIRD FLOOR WEST 1300 I STREET, NW

WASHINGTON, DC 20005

EXAMINER CHOI, JACOB Y

ART UNIT PAPER NUMBER

DATE MAILED: 03/25/2008

 APPE.CATION NO.
 FILINO DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTRIBATION NO.

 10/519,786
 01/23/2006
 Thomas Bleiner
 66434-020
 3055

TITLE OF INVENTION: EMERGENCY OPTICAL SIGNALLING DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/25/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed oth ions.	or transmitting ig the Patent, a ierwise in Bloc	the ISSI dvance o k 1, by (	JE FEE and PUBLICA's rders and notification of a) specifying a new corn	HON FEE (if requirements fees versions)  spondence address	ired). I vill be ; and/o	Blocks 1 through 5 st mailed to the current r (b) indicating a sepa	nould be completed who correspondence address trate "FEE ADDRESS" i
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/519,786	01/23/2006	'		Thomas Bleiner			66434-020	3055
TITLE OF INVENTION	EMERGENCY OPTIC	'AL SIGNALLI	NG DEV					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440		\$300	\$0		\$1740	06/25/2008
EXAM	INER	ART UN	TT	CLASS-SUBCLASS	7			
CHOI, J.		2885		362-479000	_			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha //122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident n in 37 CFR 3.11. Comp	nge of Corresponded. Use of a Co	ondence m istomer	2. For printing on the (1) the names of up to or agents OR, alternat (2) the name of a sin registered attorney or 2 registered patent at listed, no name will b THE PATENT (print or to data will appear on the (T a substitute for filing at (B) RESIDENCE: (CTT)	o 3 registered pater ively, gle firm (having as agent) and the nam orneys or agents. If e printed. spe) patent. If an assign assignment.	memb es of u no nan	p to p to get is 3	ocument has been filed f
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NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) will not b tes Patent and T	e accepte Frademark	d from anyone other than Office.	the applicant; a reg	istered .	attorney or agent; or th	e assignee or other party
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This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.311. The U.S.C. 122 and USPTO. Time rden, should be O NOT SEND F	information of the second second to the second to the second second to the second seco	on is required to obtain or 1.14. This collection is e depending upon the induce Chief Information Offic COMPLETED FORMS	retain a benefit by stimated to take 12 ividual case. Any coer, U.S. Patent and TO THIS ADDRES	the pub minuter omment Trader S. SEN	lic which is to file (and s to complete, includin is on the amount of tin nark Office, U.S. Dep D TO: Commissioner	by the USPTO to proces g gathering, preparing, as ne you require to comple artment of Commerce, P. for Patents, P.O. Box 145

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# UNITED STATES PATENT AND TRADEMARK OFFICE

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10/519,786	01/23/2006	Thomas Bleiner	66434-020	3055
25269	7590 03/25/2008		EXAM	UNER
DYKEMA GO	SSETT PLLC		CHOI, J	ACOB Y
	JARE, THIRD FLOOR	WEST	ART UNIT	PAPER NUMBER
1300 I STREET, WASHINGTON			2885	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 147 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 147 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)	_
10/519,786	BLEINER, THOMAS	
Examiner	Art Unit	_
JACOB Y. CHOL	2885	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
1 X This communication is recognize to January 17, 2008

- This communication is responsive to January 17, 2008.
- The allowed claim(s) is/are 10-14.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - b) ☐ Some\* c) ☐ None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
    - 3. 
      ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- Examiner's Statement of Reasons for Allowance
- Other \_\_\_\_\_.

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## Examiner's Comment

Examiner acknowledges that the applicant has amended claims 10 and 13. Currently, claims 10-14 are pending in the application. Applicant's arguments, see pages 4-7, filed January 17, 2008, with respect to claims 10-14 have been fully considered and are persuasive. The claim rejections - 35 USC § 103 of September 17, 2007 has been withdrawn.

# Examiner's Statement of Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the claim recites an optical signaling device for a vehicle, comprising: at least one support element, a revolving element, drive means, and one or more optical signaling elements associated with the revolving element and electrically connected to an electric power source for illumination, wherein the laser rays emitted by the generators/emitters are inclined downwardly towards a roadway beneath the vehicle, thus the vehicle being clearly visible during conditions of poor visibility.

Because none of the references disclosed the details of the optical signaling elements being laser generators/emitters, which provides cone-shaped pattern of light enveloping the vehicle to enhance the visibility, nor is there any motivation to combine the details, the claims are deemed patentable over the prior art of record.

Pederson (USPN 6,547,410) teaches at least one support element (780) fitted onto a vehicle (Figures 61-62), at least one revolving element (804, 806, 810) arranged on the support element (Figures 65-66) for rotation about a *substantially* vertical axis

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(818, 822, 816, 815, 820), drive means (794) acting on the revolving element to promote rotation thereof about the rotation axis (column 46, lines 45-55; "... the housing enclosure 780 is preferably located a motor 794 having a worm gear 796 engaged to a shaft 798. Engagement of motor 794 rotates shaft 798 in turn rotating worm gear 796. The motor 794 is preferably electrically coupled to the electrical system and/or controller 50 for the emergency vehicle"), one or more optical signaling elements (786) associated with the revolving element (804, 806, 810) and electrically connected to an electric power source for illuminating them (columns 46-47, lines 55-10; "... If rotation of the first alley light 800 is desired, then gear 804 may include a receiving slot 792 to provide electrical connection and power to the LED light source 784 for provision of light"), each of the optical signaling elements comprising light generators/emitters (786), wherein the revolving element (804, 806, 810) comprises a cylindrical body (Figures 4-5, 12) coaxial with the rotation axis and housing (Figure 64, 780) internally thereof the one or more light generators/emitters (786), the light generators/emitters being arranged in a respective seat (columns 46-47, lines 55-10; "...one or more LED's 786 which are preferably each positioned within a culminator reflector 802 for reflection") with emission hole (802; Figures 31-32) coaxial therewith, formed on the side surface of the cylindrical body (Figures 4, 5, 12, 51, 66), each of the seats (802) and the respective emission holes having a respective longitudinal axis inclined with respect to the rotation axis of the cylindrical body (columns 46-47, lines 55-10; "... first alley light 800 is preferably formed of one or more LED's 786 which are preferably each positioned within a culminator reflector 802 for reflection and maximization of light transmission along a

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desired path of illumination"), the drive means (794) being so coupled to the revolving element (804, 806, 810) to promote the rotation of the body about the rotation axis at the sufficient rotational speed to form a pattern of light (column 35-65; "... provide any desired color, pattern, combination of patterns, and/or types of light signals including, but not necessarily limited to, flashing, stroboscopic, modulated, variable, pulsating, oscillating, alternating, rotating, illumination of arrows, and/or other types of variable light signals or combination of light signals as earlier described"), the pattern of light having its base directed towards (Figure 66; 784) the plane of travel of the vehicle (columns 46-47, lines 55-10; "... a culminator reflector 802 for reflection and maximization of light transmission along a desired path of illumination") and its vertex arranged on the rotation axis (Figures 61-62). However, failed to include details of the optical signaling elements being laser generator/emitters and the cone-shaped pattern of light enveloping the vehicle on which it is mounted.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bleiner (US 2004/0041983) – visual signaling device adaptable to a vehicle

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Newcomer (USPN 6,772,525) - laser device for guiding a vehicle

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACOB Y. CHOI whose telephone number is (571)272-2367. The examiner can normally be reached on Monday-Friday (10:00-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jong-Suk (James) Lee can be reached on (571) 272-7044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jacob Y Choi Primary Examiner Art Unit 2885

Art Unit: 2885

/Jacob Y Choi/ Primary Examiner, Art Unit 2885 Page 6